

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/782,998A
Source: 1Fw/6
Date Processed by STIC: 3/15/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 03/15/2006

PATENT APPLICATION: US/10/782,998A

TIME: 11:35:20

Input Set : A:\Amended Seq Listing 600630-15US.txt

Output Set: N:\CRF4\03152006\J782998A.raw

3 <110> APPLICANT: Itoh, Nobuya
 5 <120> TITLE OF INVENTION: Reductase Gene and Use of the Same
 7 <130> FILE REFERENCE: 600630-15US (562737)
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/782,998A
 C--> 9 <141> CURRENT FILING DATE: 2004-02-20
 9 <150> PRIOR APPLICATION NUMBER: JP 2003-053568
 10 <151> PRIOR FILING DATE: 2003-02-28
 12 <160> NUMBER OF SEQ ID NOS: 14
 14 <170> SOFTWARE: PatentIn version 3.2
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 250
 18 <212> TYPE: PRT
 19 <213> ORGANISM: Leifsonia sp.
 21 <400> SEQUENCE: 1
 23 Met Ala Gln Tyr Asp Val Ala Asp Arg Ser Ala Ile Val Thr Gly Gly
 24 1 5 10 15
 26 Gly Ser Gly Ile Gly Arg Ala Val Ala Leu Thr Leu Ala Ala Ser Gly
 27 20 25 30
 29 Ala Ala Val Leu Val Thr Asp Leu Asn Glu Glu His Ala Gln Ala Val
 30 35 40 45
 32 Val Ala Glu Ile Glu Ala Ala Gly Gly Lys Ala Ala Ala Leu Ala Gly
 33 50 55 60
 35 Asp Val Thr Asp Pro Ala Phe Gly Glu Ala Ser Val Ala Gly Ala Asn
 36 65 70 75 80
 38 Ala Leu Ala Pro Leu Lys Ile Ala Val Asn Asn Ala Gly Ile Gly Gly
 39 85 90 95
 41 Glu Ala Ala Thr Val Gly Asp Tyr Ser Leu Asp Ser Trp Arg Thr Val
 42 100 105 110
 44 Ile Glu Val Asn Leu Asn Ala Val Phe Tyr Gly Met Gln Pro Gln Leu
 45 115 120 125
 47 Lys Ala Met Ala Ala Asn Gly Gly Gly Ala Ile Val Asn Met Ala Ser
 48 130 135 140
 50 Ile Leu Gly Ser Val Gly Phe Ala Asn Ser Ser Ala Tyr Val Thr Ala
 51 145 150 155 160
 53 Lys His Ala Leu Leu Gly Leu Thr Gln Asn Ala Ala Leu Glu Tyr Ala
 54 165 170 175
 56 Ala Asp Lys Val Arg Val Val Ala Val Gly Pro Gly Phe Ile Arg Thr
 57 180 185 190
 59 Arg Ser Trp Arg Gln Pro Leu Arg Arg Ala Gly Val Pro Arg Gly
 60 195 200 205
 62 Lys His Ala Leu Gly Arg Leu Gly Glu Pro Glu Glu Val Ala Ser Leu
 63 210 215 220
 65 Val Ala Phe Leu Ala Ser Gly Ala Ala Ser Phe Ile Thr Gly Ser Tyr

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66 225          230          235          240
68 His Leu Val Asp Gly Gly Tyr Thr Ala Gln
69          245          250
71 <210> SEQ ID NO: 2
72 <211> LENGTH: 753
73 <212> TYPE: DNA
74 <213> ORGANISM: Leifsonia sp.
76 <220> FEATURE:
77 <221> NAME/KEY: CDS
78 <222> LOCATION: (1)..(753)
80 <400> SEQUENCE: 2
82 atg gct cag tac gac gtc gcc gac cgg tcc gcg atc gtg acc gga ggc      48
84 ggc tcg ggc atc ggg cgc gcc gtg gcg ctc act ctc gcg gcg agc ggc      96
86 gca gcc gtc ctc gtc acc gac ctg aac gag gag cac gcg cag gcc gtc     144
88 gtg gcc gag atc gag gcc gcg ggc ggt aag gcc gcc gcg ctc gcg ggc     192
90 gac gtg acc gac ccc gcg ttc ggc gag gcg agc gtc gcc ggg gcg aac     240
92 gct cta gcg ccc ctc aag atc gcg gtc aac aac gcg ggc atc ggc ggc     288
94 gag gcc gcc acg gtc ggc gac tac tcg ctc gac agc tgg cgc acg gtg     336
96 atc gag gtc aac ctc aac gcc gtg ttc tac ggg atg cag ccg cag ctg     384
98 aag gcc atg gcc gcc aac ggc ggc ggt gcg atc gtc aac atg gcg tcc     432
100 atc ctg gga agc gtc ggc ttc gcc aac tcg tcg gcc tac gtc acg gcc     480
102 aag cac gcg ctg ctc ggt ctc acc cag aac gcc gcg ctc gag tac gcc     528
104 gcc gac aag gtg cgc gtc gtc gcg gtc ggc ccc ggc ttc atc cgc acc     576
106 cgc tcg tgg agg caa cct tcc cgc cga cgc gct ggc gtt cct cga ggg     624
108 aag cac gcc ctc ggc cgc ctg ggc gag ccg gaa gag gtc gcc tcg ctg     672
110 gtc gcg ttc ctc gcc tcc ggc gcc gcg agc ttc atc acc ggc agc tac     720
112 cac ctg gtg gac ggc ggc tac acc gcc cag tga                        753
114 <210> SEQ ID NO: 3
115 <211> LENGTH: 20
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
122 <400> SEQUENCE: 3
123 atggctcagt acgacgtcgc                                             20
125 <210> SEQ ID NO: 4
126 <211> LENGTH: 20
127 <212> TYPE: DNA
128 <213> ORGANISM: Artificial Sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
133 <400> SEQUENCE: 4
134 tcactgggcg gtgtagccgc                                             20
136 <210> SEQ ID NO: 5
137 <211> LENGTH: 15
138 <212> TYPE: PRT
139 <213> ORGANISM: Leifsonia sp.
141 <400> SEQUENCE: 5
143 Ala Gln Tyr Asp Val Ala Asp Arg Ser Ala Ile Val Thr Gly Gly

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```

144 1          5          10          15
146 <210> SEQ ID NO: 6
147 <211> LENGTH: 12
148 <212> TYPE: PRT
149 <213> ORGANISM: Leifsonia sp.
151 <400> SEQUENCE: 6
153 Ile Ala Val Asn Asn Ala Gly Ile Gly Gly Glu Ala
154 1          5          10
156 <210> SEQ ID NO: 7
157 <211> LENGTH: 20
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
164 <220> FEATURE:
165 <221> NAME/KEY: misc_feature
166 <222> LOCATION: (12)..(12)
167 <223> OTHER INFORMATION: n is inosine
169 <220> FEATURE:
170 <221> NAME/KEY: misc_feature
171 <222> LOCATION: (15)..(15)
172 <223> OTHER INFORMATION: n is a, c, g, or t
174 <400> SEQUENCE: 7
W--> 175 cartaygayg tngcngahmg 20
177 <210> SEQ ID NO: 8
178 <211> LENGTH: 20
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
185 <220> FEATURE:
186 <221> NAME/KEY: misc_feature
187 <222> LOCATION: (6)..(6)
188 <223> OTHER INFORMATION: n is inosine
190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (9)..(9)
193 <223> OTHER INFORMATION: n is a, c, g, or t
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (18)..(18)
198 <223> OTHER INFORMATION: n is a, c, g, or t
200 <400> SEQUENCE: 8
W--> 201 ccdatnccng crttrttnac 20
203 <210> SEQ ID NO: 9
204 <211> LENGTH: 304
205 <212> TYPE: DNA
206 <213> ORGANISM: Leifsonia sp.
208 <400> SEQUENCE: 9

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209 gaattcgatt cagtatgatg tggctgatcg gtccgcgacg gtgaccggag gcggctcagg      60
211 catcgggcgc gccgtggcgc tcaactctcg gcgcgagcgg gcagccgtcc tcgtcaccga      120
213 cctgaacgag gagcacgcgc aggccgtcgt ggccgagatc gaggccgcgg gcggtaaggc      180
215 cgccgcgctc gcggggcgacg tgaccgaccc cgcgttcggc gaggcgagcg tcgccggggc      240
217 gaacgctctc gcgccccctca agatcgcggt caataacgca ggcatcggaa tcactagtga      300
219 attc                                                                    304
221 <210> SEQ ID NO: 10
222 <211> LENGTH: 304
223 <212> TYPE: DNA
224 <213> ORGANISM: Leifsonia sp.
226 <400> SEQUENCE: 10
227 gaattcgatt cagtatgatg tggctgatcg gtccgcgacg gtgaccggag gcggctcagg      60
229 catcgggcgc gccgtggcgc tcaactctcg gcgcgagcgg gcagccgtcc tcgtcaccga      120
231 cctgaacgag gagcacgcgc aggccgtcgt ggccgagatc gaggccgcgg gcggtaaggc      180
233 cgccgcgctc gcggggcgacg tgaccgaccc cgcgttcggc gaggcgagcg tcgccggggc      240
235 gaacgctctc gcgccccctca agatcgcggt caataacgca ggcatcggaa tcactagtga      300
237 attc                                                                    304
239 <210> SEQ ID NO: 11
240 <211> LENGTH: 26
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
247 <400> SEQUENCE: 11
248 ggagatttcc atggctcagt acgacg                                          26
250 <210> SEQ ID NO: 12
251 <211> LENGTH: 20
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
258 <400> SEQUENCE: 12
259 gggctgcagc ccggtcactg                                                  20
261 <210> SEQ ID NO: 13
262 <211> LENGTH: 29
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
269 <400> SEQUENCE: 13
270 gctgcagcga tcatcatagc aggagtcac                                          29
272 <210> SEQ ID NO: 14
273 <211> LENGTH: 31
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Designed oligonucleotide primer for PCR
280 <400> SEQUENCE: 14
281 acaagcttgt gaattcaaca ccagtcagct c                                    31

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/15/2006
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Input Set : A:\Amended Seq Listing 600630-15US.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 12,15 /

Seq#:8; N Pos. 6,9,18 /

VERIFICATION SUMMARY

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Input Set : A:\Amended Seq Listing 600630-15US.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0

L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0